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SAMSUNG

SCH-411

Series CDMA

DIGITAL PORTABLE
CELLULAR TELEPHONE

Owner's Manual

Please read this manual before operating the phone,
and keep it for future reference.

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Precautions

Important Information

This manual is based on the production version of the included portable cellular telephone. Software changes may have occurred after this printing.

Safety Precaution

For more detailed safety information, see "Safety" on page 62.

- Do not use your phone while driving; park the vehicle first.
- Do not use your phone when near medical equipment.
- Do not use your phone at any time while traveling on board a plane.
- Do not use your phone where a blasting operation is in progress.
- Do not use your phone at a refueling point.

FCC/IC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two condition:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may causing undesired operation.

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Getting Started

Features

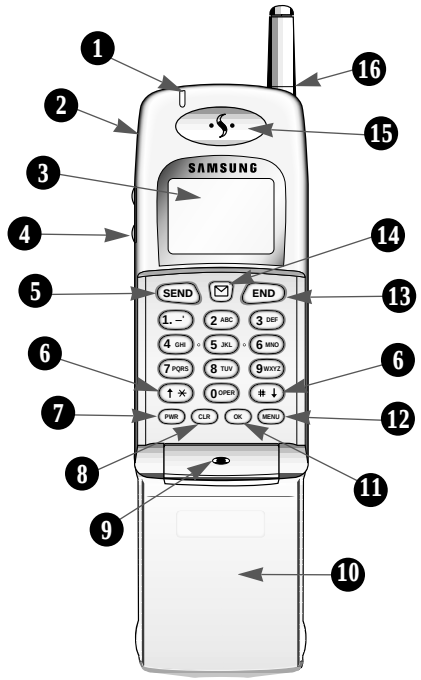
Congratulations on the purchase of your SAMSUNG Phone. Using the latest digital technology, the phone operates in a similar manner to other wireless phones, while providing superior resonance and tone quality.

The following options make your phone both fun and easy to use:

- Active Flip
- Variable Character Display
- Phone Book Memory - 79 Locations
- Voice Dialing - 20 Locations
- Programmable Lock Code
- Short Message Services (SMS) and Voicemail
- 9 Ring Types, 4 Melody Tones, Vibrator Alert
- Call Logs - 9 Locations Each: Outgoing and Incoming Calls
- Pause Dialing
- Ringer Mute During Incoming Call
- Remind Call
- EVRC

Description of Your Phone

Function keys and other controls activate the features of your phone. The following illustration identifies the function keys, controls, and indicators:



(not actual size)

1) Power On Light
2) Earphone Mic Jack
3) LCD Screen
4) Volume Control
5) SEND Key
6) Scroll Keys
7) Power Key
8) Clear Key
9) Microphone
10) Flip
11) OK (Store) Key
12) Menu Key
13) End Key
14) Messages Key
15) Earpiece
16) Antenna

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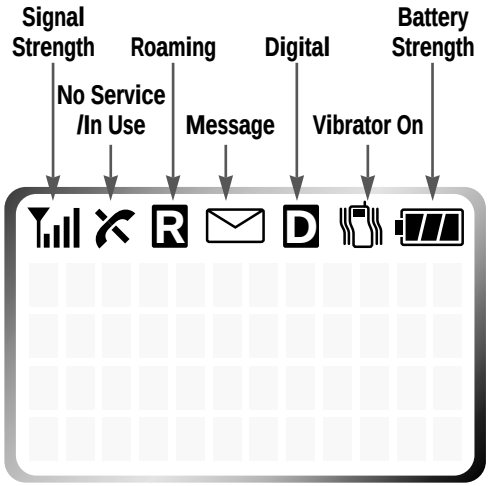
Screen Display

This phone features dynamic character sizing, which enables the screen to display from 12 to 16 characters per line. The five-line screen includes four text lines and one icon line, which displays active options and selected menu items.

During conversation, the screen displays the call timer and the name and number of the other party, if available. Active in-use options, such as Mute and Call Waiting, also display during conversation.

The following icons display at power-on:



(not actual size)

Key Functions

SEND

Press SEND to:
- place a call after dialing the number,
- answer an incoming call,
- initiate Three-way calling,
- access Call Logs.

CLR

Press CLR to:
- erase one character at a time while entering names and numbers,
- go back one menu level at a time while viewing menu options,

Press and hold CLR to:
- erase all displayed characters while entering names and numbers,
- return to Standby mode while viewing menu options.

END

Press END to:
- end a call,
- exit the current menu and return to Standby mode.
- mute the ringer during an incoming call.

MENU

Press MENU to:
- display the Main Menu,
- scroll through menus,
- enter a pause while entering numbers.

Press MESSAGES to access messages.

OK

Press OK to save menu option settings.

Press the arrow keys to scan menu options.

Press and hold ↑ * to:
- initiate Voice Dialing when the flip is open.

Press and hold # ↓ to:
- switch between bell and vibrator setting.

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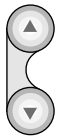
PWR — Press PWR to turn the phone on and off.



Press the Volume button to:

- adjust voice volume during conversation.
- adjust key beep volume in Standby mode,
- scroll Call Logs and Phone Book entries.

Status Indicators

Signal Strength
Indicates a current signal strength.

No Service
Indicates that the phone is outside a service area and cannot send or receive calls.

Roaming
Displays when the phone is outside the home service area but within the network.

Message
Indicates messages.

Digital
Indicates a Digital mode.

Vibrate
Indicates a Vibrate mode.

Battery Charge
Indicates a battery charge level.

Display Messages

MAINTENANCE REQUIRED	The phone number is not registered in the base station.
PHONE BOOK RESTRICTED	You have tried to access the memory while the phone is in the memory restricted mode.
New Entry will replace OK: Replace	A phone number is already stored in selected memory location.
MATCHING ENTRY NOT FOUND	The phone number you are trying to recall does not exist.
NO INCOMING CALL LOG	You have not received any incoming calls.
NO OUTGOING CALL LOG	You have not made any outgoing calls.
NO SERVICE	The phone is out of the service area.
INCOMING CALL IS RESTRICTED	While the phone is restricted, you have tried to answer a call.
OUTGOING CALL IS RESTRICTED	While the phone is restricted, you have tried to make a call.
REDIAL CALL FAILED	The call cannot be made completely even after automatic redialing.

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Battery

Your phone package includes a partially charged rechargeable battery so that you can use the phone immediately after it is activated.

Installing the Battery

To attach the battery to your phone:

1. Hold the battery so that the metal contacts on the base of the battery line up with the metal contacts on the base of the phone.
2. Place the battery on the back of the phone with the top of the battery about a quarter of an inch from the latch.
3. Gently slide the battery toward the top of the phone until it snaps into place.

Removing the Battery

Make sure to turn the power off before removing the battery. Then press the battery release button while sliding the battery out of position.

Dual-Slot Desktop Charger

The Dual-Slot Desktop Charger contains:

- Front compartment for charging the battery while attached to the phone
- Rear compartment for charging the battery alone (not attached to the phone)
- Red light to indicate that the battery is charging (A yellow light indicates that the battery is operating at a temperature that is too high or too low, or that the battery is misaligned in the charger. Please check the charger and battery.)
- Green light to indicate that the battery is fully charged

Charging the Battery

To charge the battery using the Dual-Slot Desktop Charger:

1. Plug the power cord of the charger into a wall outlet.
2. Select one of the following options:
   - Insert the entire phone with battery attached into the front compartment of the charger.
   - Insert a single battery (alone, not attached to the phone) into the rear compartment of the charger.

When two batteries are in the charger, the batteries charge simultaneously. If you charge the battery while it is attached to your phone, the Battery Charge Indicator activates. A green LED indicates a full battery charge.

Note: Use only the SAMSUNG-approved Dual-Slot Desktop Charger with your phone by Samsung. Using the wrong charger could damage the battery.

Battery Charge Indicator

The Battery Charge Indicator displays in the upper right corner of the screen and indicates three levels of charge. Three solid bars indicate a fully charged battery. When the battery charge level is low or empty, a clear Battery Charge Indicator (no bars displayed) flashes on the screen.

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Caring for the Battery

Use only SAMSUNG-approved batteries, Desktop and Travel chargers. These chargers maximize battery life and performance. Using other batteries or chargers may invalidate your warranty and may damage the battery.

For proper battery care, please follow these guidelines:

- To avoid damage, charge the battery in temperatures that range from 32˚F to 104˚F (O˚C to 40˚C).
- Do not use the battery charger in direct sunlight or in high humidity areas (such as a bathroom).
- Never dispose of the battery by incineration (fire).
- Keep the metal contacts at the battery base clean.
- Do not attempt to disassemble or short-circuit the battery, as injuries or burns may result.
- Replace the battery when it no longer provides acceptable performance.
- Do not store the battery in high-temperature areas for a long time.
- Do not allow metal objects or liquids to contact or short-circuit the battery terminals, as injuries or burns may result.

Battery Disposal and Recycling

Please be aware of the following guidelines when disposing of or recycling the battery:

- Do not dispose of the battery in a fire; the cell may explode. Check the regulations in your area for special disposal instructions.
- Do not open or puncture the battery; the released electrolyte is corrosive and may cause damage to the eyes and skin. This substance also can be toxic if swallowed.
- Charge the battery in accordance with the instructions specified in this manual.

Call Quality

For optimum call quality with your phone, please follow these guidelines:

- Fully extend the antenna. While it may be possible to place calls with the antenna retracted, the phone operates best with the antenna fully extended.
- Hold the phone as you would hold any other telephone handset. Speak directly into the microphone, and position the antenna up and over your shoulder while talking.
- Do not hold the antenna while using the phone, as this may affect call quality.

Table 1: Phone and Battery Specifications

Phone Type:	Dual Mode CDMA/AMPS 800MHz		
Graphic LCD:	5 Lines (4 Text Lines, 1 Icon Line)		
Battery Type:	Standard: 1000mAh Li-Ion		
	Extended:1600 mAh Li-Ion		
	Long-Life:2700 mAh Li-Ion		
Phone with:	Standard Battery	Extended Battery	Long-Life Battery
Dimensions (HXWXD):	114X50X24 mm	114X50X28 mm	114X50X36.5 mm
Weight:	145g	161g	189g
Talk Time:	up to 2.5 hours	up to 4 hours	up to 6.6 hours
	or	or	or
Standby Time:	up to 40 hours	up to 60 hours	up to 74 hours

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Basic Operations

Basic Operations of Your Phone

Power On/Off	Press and hold PWR.
Menu Scrolling	Press MENU, then ↑ * or # ↓.
Make Calls	Enter number, and then press SEND.
Correct Mistakes	Press CLR.
Redial Call	Press SEND twice.
End Call	Press END, or close flip.
Answer Call	Press SEND, or open flip.
Save Numbers	Enter phone number, press OK, and then follow screen prompts.
Outgoing Call	Press MENU, 1. –', 1. –', to review the last 9 outgoing calls.
Incoming Call	Press MENU, 1. –', 2 ABC, to review the last 9 incoming calls.
Name Search	Press OK in Standby Mode.

Turn On/Off

Turning On

To power on your phone, press and hold PWR. The red light flashes, an alert sounds. The display updates to reflect the following conditions:

- When the system locates service, the greeting message displays, along with the date and time. You can now place and receive calls.
- If the system cannot locate service, only the greeting message displays without the date and time. In this case, you cannot place and receive calls. Power off the phone, and then try again later when service is available.
- If your phone is locked, "Locked" displays. Press MENU, and enter the four-digit lock code to unlock the phone.

Turning Off

To power off your phone, press and hold PWR. When your power is off, nothing displays on the screen.

Standby Mode

When your phone is on but no call is in progress, the phone is in standby mode.

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Placing Calls

Placing a Call

To place a call:

1. Press and hold PWR to power on your phone. An active screen display indicates that the phone is on. (No dial tone sounds.)
2. Enter the phone number, up to 36 digits, by pressing the digit keys. The phone number displays on the screen.
3. Press SEND. The phone places the call to the entered phone number.

Emergency Dialing

You can place calls to one of the three emergency numbers that are in your emergency number list even if your phone is locked.

Prepend Dialing

The prepend option enables you to add up to three digits, such as area codes and network feature activation codes, to a phone number of up to 10 digits. You can prepend a phone number before dialing, or prepend an existing entry in the Phone Book or Call Logs.

To use prepend, select one of the following options:

- Enter the area code or feature activation code, and then enter the phone number.
- Access a phone number stored in the Phone Book or Call Logs, and then prepend the number.

To prepend existing phone numbers in the Phone Book or Call Logs:

1. Access the phone number entry.
2. When the phone number displays, press MENU to display context-specific options.
3. Press 3 DEF for prepend.
4. Enter the area code or feature code.
5. Press SEND to call the number.

Correcting a Misdialed Number

To correct a misdialed number:

- Press CLR to erase the digit, and then enter the correct dlgit.
- Press and hold CLR to erase the entire entry, and then enter the correct phone number.

Receiving Calls

Answering a Call

To answer an incoming call, press SEND, or open the flip.

Ending a Call

To end a call, press END, or close the flip. The call time displays, along with the name/number of the called party (if available). The phone returns to Standby mode automatically.

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Call Waiting

Call Waiting enables you to receive a second call during conversation. When a Call Waiting call comes in, the incoming call alert sounds, and a text notification displays.
Contact your service provider to activate Call Waiting.

To answer a Call Waiting call:

1. To answer the call, press SEND. The phone connects the calling party, and the places the current party on hold.
2. Press SEND again to switch between the two parties.

Three-Way Calling

Three-Way Calling enables you to conduct conference calls with two separate parties at the same time. You are billed airtime for each outgoing call separately. Contact your service provider to activate Three-Way Calling.

To place a Three-Way Call:

1. During conversation, press SEND, enter the phone number for the third party, and then press SEND again. The phone places the other party on hold.
2. When the third party answers, press SEND again to connect with the original party.

Call Forwarding

This phone provides the option of forwarding incoming calls to another phone number, even while your phone is off. Activating Call Forwarding does not affect outgoing calls made from this phone. Contact your service provider to activate Call Forwarding.

The Menu

Menu Organization

The Main Menu in Standby mode contains 8 primary options, many of which contain sub-menus with more specific options.

The In Use Menu options are available in Conversation mode:

1. Calls
2. Phone Book
3. (Un) mute
4. Silent Key
5. Version
6. Send Tel #

SND. Send DTMF

To access a menu option, press MENU, and then press the associated digit key to select the desired option. As an alternative to pressing the digit keys, access the menu, and then press the scroll keys to scan options. Pressing the scroll keys highlights each option in sequence. Press OK to select the highlighted option.

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Table 2: Main Menu Structure

SCH-411 Standby Menu

Main Menu	Menu Level 1	Menu Level 2
1. Calls ➪	1. Outgoing	
	2. Incoming	
	3. Erase Logs ➪	1. Outgoing
		2. Incoming
		3. All
	4. Air Time ➪	1. Last Call
		2. Total
		3. Erase Total
2. Phone Book ➪	1. Find Name	
	2. My Phone #	
	3. Add Entry	
	4. Find Entry	
3. Sounds ➪	1. Ring ➪	1. Ring Vol
		2. Ring Type
		3. Ring Tone
	2. Key Beep	
	3. Alert ➪	1. MinuteBeep
		2. Svc Area
	4. Alarm ➪	1. Set
		2. Release
	5. Diff. Ring	
4. Display ➪	1. Backlight	
	2. Greeting	
	3. Version	
	4. Language	

SCH-411 Standby Menu (Continued)

Main Menu	Menu Level 1	Menu Level 2
5. Analog Call		
6. Voice Dial ➪	1. Record	
	2. Rev/Erase	
	3. Erase All	
	4. Set Active	
7. Setup ➪	1. Auto Retry	
	2. Auto Recv	
	3. AutoHyphen	
	4. Anykey Ans	
	5. ToneLength	
	6. Tone ➪	1. Rls. Tone
		2. Conn. Tone
	7. Set Time	
0. Security ➪	1. Lock	
	2. Restrict ➪	1. Phone Book
		2. Incoming
		3. Outgoing
	3. Lock Code	
	4. Emergency #	
	5. Send PIN	
	6. Clr Memory	
	7. NAM Mode ➪	1. Manual NAM
		2. Auto NAM
	8. Block Own #	
	9. System Sel ➪	1. FM
		2. CDMA
	0. ResetPhone	

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Calls Options

Tracking Calls Through Call Logs

The Call Logs store up to nine incoming calls and nine outgoing calls. Each log stores the name and phone number (if available), as well as the date/time stamp. In case of duplicate entries back to back, the system consolidates those entries and stores only the most recent call from the same phone number.

To review call logs:

1. Press MENU to display the Main Menu.
2. Press 1. –' for Calls.
3. Press the associated digit key to select an option:
   - Press 1. –' for Outgoing calls.
   - Press 2 ABC for Incoming calls.
4. When the list of calls displays, press the scroll keys to select an entry to view, and then press OK or the associated digit key to view the date/time stamp for the selected entry. If there is a Phone Book match, the name displays. If there is not a Phone Book match, only the phone number displays.
5. Press MENU to display context-specific options:
   - Press 1. –' for Talk.
   - Press 2 ABC for Show Entry (or Store if the phone number is not currently stored in the Phone Book).
   - Press 3 DEF for Prepend, and then add an area code or feature code to the number before calling or saving the number.
6. Press CLR to exit the Call Logs and return to the previous screen.

Erasing Call Logs

You can erase phone numbers stored in the Call Logs.

To erase call logs:

1. Press MENU to display the Main Menu.
2. Press 1. –' for Calls.
3. Press 3 DEF for erase logs. Additional options display.
4. Press the associated digit key to select one of the following context-specific options:
   - Press 1. –' for Outgoing calls.
   - Press 2 ABC for Incoming calls.
   - Press 3 DEF for All calls.
5. When the screen prompts for confirmation, press OK to confirm erasing the call logs, or press CLR to cancel the operation.

Reviewing Airtime

You can review the airtime of the most recent call, as well as total airtime for all calls since the last reset action.

To review airtime:

1. Press MENU to display the Main Menu
2. Press 1. –' for Calls
3. Press 4 GHI for Airtime
4. Press the associated digit key to display airtime for the selected calls:
   - Press 1. –' for Last Call.
   - Press 2 ABC for Total.
5. Press CLR to return to the previous screen.

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Sounds Options

Your phone receives incoming calls and provides call notification only when it is on. Notification type depends on the selected setting.

Ring Volume

You can set ring volume in Standby mode from the Main Menu. During an incoming call, press END to mute the ringer.

To adjust ring volume in Standby mode:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 1. –' for Ring.
4. Press 1. –' for Ring Volume.
5. Press the Volume buttons to scan volume options.
6. When the desired volume level displays, press OK to save the setting.

Ring Type

You can set ring type from three types to signal an incoming call: a bell, a lamp, or a vibrator.

To set ring type:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 1. –' for Ring.
4. Press 2 ABC for Ring Type.
5. Press the Volume buttons to scan ring types.
6. When the desired option displays, press OK to save the setting.

Ring Tone

When you select BELL as your ring type, you can set ring tone from nine tones and four melodies.

To set ring tone:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 1. –' for Ring.
4. Press 3 DEF for Ring Tone.
5. Press the scroll keys to scan ring tones. Each tone sounds as you scan the options.
6. When the desired option displays, press OK to save the setting.

Key Beep

The Key Beep sounds in response to digit key presses. You can set key beep in Standby mode from the Main Menu or by pressing the Volume buttons on the side of the phone.

To set key beep volume:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 2 ABC for Key Beep.
4. Press the Volume buttons to scan eight volume options and to keep silent.
5. When the desired option displays, press OK to save the setting.

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Alert

You can set alerts to turn the Minute Beep and Service Area alert tones on and off, in Standby mode. The Minute Beep indicates each minute on your call. The Service Area alert indicates when you are out of a service area or when you return a service area.

To select alert options:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 3 DEF for Alert.
4. Press the associated digit key to select an option:
   - Press 1. –' for Minute Beep.
   - Press 2 ABC for Service Area.
5. Press the scroll keys to toggle between On/Off.
6. When the desired option displays, press OK to save the setting

Alarm

You can set the phone to sound an alarm at an appointed time. If you set an alarm time, the phone will sound an alarm automatically at the appointed time.

To set alarm:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 4 GHI for Alarm.
4. Press 1. –' for Set.

5. Press ↑ * or # ↓ to choose the alarm mode.
   - One Time: Alarm will be activated one time.
   - Daily: Alarm will be activated on a specified time every day unless you release the alarm feature.
6. Press OK to save the alarm mode.
7. Enter the time (in 24-hour clock) by pressing the digit keys. To correct a digit entered incorrectly, press ↑ * or # ↓ and then enter the correct digit.
   - If the current time is already set, you can specify the alarm time.
   - If the courrent time is not set, enter the time duration your phone has to wait in minutes.
8. Press OK to save the setting. At the set time, the alert sounds and the '-ALARM-' is blinked.
9. To cancel alarm at any time, access the Alarm option (step 1, 2 and 3), Press 2 ABC to cancel the setting, and then press OK to confirm the action.

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Differential Ring

The Differential Ring option enables you to activate a unique ring to signal an incoming call by a stored caller number.

To set Differential ring Volume:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 5 JKL for Differential Ring.
4. Press the corresponding digit key (1~5) to select the desired caller.
5. Enter the phone number by pressing the digit keys.
6. To store the phone number, press OK.
7. Press the scroll keys to scroll the list of ring tones and melody tones. Each tone sounds as the options.
8. When the desired option displays, press OK to save the setting.

Display Options

Your phone provides several display options.

Backlight Control

When the phone is attached to the Hands-free Car Kit, the backlight remains on. At other times, you can select backlight options.

To select backlight options:

1. Press MENU to display the Main Menu
2. Press 4 GHI for Display.
3. Press 1. – ' for Backlight.
4. Press the scroll keys to scan menu options: 8 Seconds (after last keypress), Off.
5. When the desired option displays, press OK to save the setting.

Personal Greeting

You can create a 12-character personal greeting that displays at power-on and in Standby mode.

To create a personal greeting:

1. Press MENU to display the Main Menu.
2. Press 4 GHI for Display.
3. Press 2 ABC for Greeting.
4. Enter your personal greeting by pressing the alphanumeric keys on the keypad.
5. Press OK to save the setting.

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Version Display

You can view the software version of your phone during conversation or in Standby mode.

To view the version in Standby mode:

1. Press MENU to display the Main Menu.
2. Press 4 GHI for Display.
3. Press 3 DEF for Version.
4. Press CLR to return to the previous screen.

To view the version in Conversation mode:

- Press MENU, 5 JKL.

Selecting Display Language

You can select the display language on your phone.

To set the language:

1. Press MENU to display the Main Menu.
2. Press 4 GHI for Display.
3. Press 4 GHI for Language Select.
4. Press the scroll keys to toggle between Hebrew/English.
5. Press OK to save the setting.

Analog Call Option

Your phone is preset to Digital mode. If you want to place a call in Analog mode, use this feature. But if your system supplier does not provide AMPS service, this function is unavailable.

To make a call in Analog mode:

1. Press MENU to display the Main Menu.
2. Press 5 JKL for Analog Force Call.
3. Press OK to set to Analog mode, or press CLR to return to the previous screen.
4. If you end the Analog call or do not make a call within 5 minutes, your phone returns to Digital mode automatically.

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Setup Options

Your phone contains many setup features that make communication easier and more efficient. Using them saves time and makes yours even more fun to use.

To set setup options:

1. Press MENU to display the Main Menu.
2. Press 7 PQRS for Setup.
3. Press the corresponding digit key to select the desired option:
   - Press 1. –' for Automatic Retry.
   - Press 2 ABC for Automatic Receiving.
   - Press 3 DEF for Automatic Hyphenation.
   - Press 4 GHI for Any Key Answer.
   - Press 5 JKL for Tone Length.
   - Press 6 MNO for Tone, and then select (1) Release Tone or (2) Connect Tone.
   - Press 7 PQRS for Set time.
4. Press the scroll keys to toggle, except Set Time.
5. Press OK to save the setting.

Automatic Retry

When you place a call and the call does not connect, your phone continue to place the call to the entered phone number.

Automatic Receiving

When a call comes in, your phone will answer the call automatically after 2 rings. This feature does not work if you have chosen Vibrate or Off as your ring volume.

Automatic Hyphenation

Automatic Hyphenation hyphenates numbers as follows:

- 123-456-7890

Digits following a pause are not hyphenated.

Any Key Answer

Activate Any Key Answer to answer incoming calls by pressing any key on the keypad, except PWR and END.

Tone Length

Some phones you call can recognize only longer tones. You may have to change the length to LONG for some calls. When calling a paging system, your phone should be in the SHORT mode.

Release Tone

You can set your phone to sound the release tone when a call is released or dropped.

Connect Tone

You can set your phone to sound the connect tone when your call is connected to the system.

Setting Current Time

You can set the time and date on your phone.

To set the time:

1. Press MENU to display the Main Menu.
2. Press 7 PQRS for Setup.
3. Press 7 PQRS for Set Time.
4. Enter the time and date. The current time, if set, displays. The month, day, hour and minute must be entered with 2 digits. The year requires all four digits. If you don't input the time or you input the wrong time, "Invalid Time" displays.
5. Press OK to set the time.

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Phone Book

Overview of the Phone Book

The Phone Book provides the following features:

- 79 memory locations
- Optional name entry
- Text notification when overwriting or erasing entries
- Automatic scrolling to the next available location, with manual location selection option
- Adding/Editing entries by name or location
- Direct access of entries by name or location
- Searching entries by name or location
- One-touch/Two-touch Dialing
- Placing a call to the displayed Phone Book entry
- Secret number calling
- Prepending phone numbers
- Name/Number display when entry includes name

Storing Phone Numbers

Storing Phone Numbers/Names

To store phone numbers/names:

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Press 3 DEF for Add Entry. The screen prompts for a new phone number.
4. Enter the phone number by pressing the digit keys.
5. To store the phone number, press OK. The first available location displays.
6. To accept the displayed location, press OK. To select another location, press the scroll keys to scroll to the desired location, and then press OK.
7. To include a name with the phone number entry, respond to the screen prompt by entering the name.
8. After entering the name, press OK.

Storing Phone Numbers at Call End

To store a phone number following conversation:

1. Press END to end the call. The call time and the phone number display.
2. To store the phone number, press OK. The first available location displays.
3. To finish this process, follow above-mentioned steps (step 6, 7 and 8).

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Viewing Stored Entries

Finding Entries by Location

To find an entry by location:

1. Press MENU to display the Main Menu
2. Press 2 ABC for Phone Book.
3. Press 4 GHI for Find Entry. The screen prompts for a location.
4. Enter the location by pressing the associated digit key, or press the scroll keys to scroll to the desired location, and then press OK to display the selected entry.
5. When the desired entry displays, press SEND to place a call.

Finding Entries by Name

You can locate Phone Book entries quickly when the phone is in Standby mode: Press OK to access the Phone Book in one step and then press the scroll keys to scan entries.

To find Phone Book entries from the Main Menu;

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Press 1. –' for Find Name. Stored names display in an alphabetical list.
4. Press the scroll keys to scroll to the desired name. You can also enter the first letter of the name by pressing the associated alphanumeric key. Using this method, the phone searches for the names in the list beginning with that letter, and then displays the first name in that section of the list. If desired, you can also enter the second letter in the name by pressing the associated alphanumeric key.
5. when the desired entry displays, press SEND to place a call.

Displaying Your Phone Number

You can check your own phone number.

To display your phone number:

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Press 2 ABC for My Phone Number. The phone number of your phone displays. If you have more than one own phone number, press the scroll keys to check the next number.
4. Press OK to return to the previous screen.

Dialing from the Phone Book

Dialing By Memory Location

Your phone enables you to place calls quickly by pressing and holding the associated digit key(s) for the Phone Book memory location of the phone number you are calling.

The following table outlines dialing shortcuts:

Table 3: Memory Dialing Shortcuts

ACTIVITY	SHORTCUT
One-touch Dialing:	Press and hold the associated digit key for the location.
Two-touch Dialing:	Press the first associated digit key, and then press and hold the second digit key.

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Editing Phone Book Entries

To edit a Phone Book entry:

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Access the desired entry using one of the search methods described under "Viewing Stored Entries" on page 38.
4. When the desired entry displays, press MENU for context-specific options.
5. Press 2 ABC for Edit. Additional options dispiay.
6. Press the associated digit key to select an option:
   - Press 1. – ' for Phone #. The phone number displays.

     Press CLR to delete the phone number, and then enter the new phone number by pressing the digit keys.

     Press OK to save the new number.
   - Press 2 ABC for Name. The name displays and then enter the new name by pressing the alphanumeric keys. Press OK to save the new name.
   - Press 3 DEF for Entry #. The Phone Book location number displays. Press the scroll keys to scroll to the desired location, and then press OK to save the new location.

Erasing Phone Book Entries

To erase Phone Book entries:

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Access the desired entry using one of the search methods described under "Viewing Stored Entries" on page 38.
4. When the desired entry displays, press MENU for context-specific options.
5. Press 4 GHI for Erase. The screen prompts for confirmation.
6. Press OK to erase the displayed entry. The "Erased" notification displays, along with the name, number, and location.

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Storing Secret Numbers

You can select the Secret option to prevent dialed phone numbers from displaying on the screen.

To store a secret number in the Phone Book:

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Store the phone number as described under "Storing Phone Numbers" on page 37, or access an existing entry as described under "Viewing Stored Entries" on page 38.
4. When the phone number displays, press MENU for context-specific options.
5. Press 2 ABC for Edit. Additional options display.
6. Press 4 GHI for Secret. The screen prompts for confirmation.
7. Press the scroll keys to toggle between No/Yes.
8. Press OK to save the setting.

Voice Dial

Voice Dialing

Your phone features Smartspeak®, the new Voice Dialing system from Advanced Recognition Technology. You can call up to 20 stored entries by speaking the name into the microphone.

Using the Voice Dialing option requires that you first train the phone to recognize the name.

Training the Phone

To train the phone for Voice Dialing:

1. Press MENU to display the Main Menu.
2. Press 6 MNO for Voice Dial.
3. Press 1 for Record. The system provides voice prompts and screen displays to guide you through the recording process.
4. Respond to the prompt by saying the name you want to save. The phone stores the name as a first sample, and then prompts for the name again.
5. Respond to the prompt by repeating the name after the beep. The phone stores the name as a second sample, and then requests the phone number.
6. Enter the phone number by pressing the digit keys.
7. To store the phone number, press OK . The name (if matched up to Phone Book) and number display, along with the notification "Recorded". The screen then returns to the Voice Dialing menu.

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Tips on Recording Name

- Avoid recording similar names phonetically. If you record a similar name to the one already in memory, the phone requests another name.
- Avoid recording in a noisy place.
- Speak clearly and natural.
- The person who will use the phone should record the name. The phone does not recognize the name if the voice sounds differently.
- Avoid too long or short name. It is recommended to contain 2 to 5 syllables.
- Voice dial feature is available only in CDMA mode.
- If this feature does not work properly, erase the name, and record with another name.
- It is recommended to practice several times to obtain best result.
- You can record up to 20 names. If you record more than 20, the phone announces 'Memory is full.'

Checking Recorded Name

1. Press MENU to display the Main Menu.
2. Press 6 MNO for Voice Dial.
3. Press 2 ABC for Review. A list of entries displays.
4. Press the digit key to select the desired entry, or press the scroll keys to scan entries. Your phone plays the recorded name.

Activation

Voice Dialing is always active once you have trained the phone to accept Voice Dialing entries. To place calls using Voice Dialing, simply press and hold ↑ *, and then say the name into the phone after you hear the prompt.

You can also initiate a Voice Dialing call just by opening the flip, when you select this option through the Main Menu.

To change Voice Dialing setup options:

1. Press MENU to display the Main Menu.
2. Press 6 MNO for Voice Dial.
3. Press 4 GHI for Set Active.
4. Press the scroll keys to toggle between options:
   - [*] only: Enables Voice Dialing by pressing and holding ↑ *.
   - [*] / FLIP: Enables Voice Dialing by pressing and holding ↑ *, or by opening the flip.
5. When the desired option displays, press OK to save the setting.

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Using Voice Dialing

Placing a Call

To place a call using Voice Dialing:

1. To place the call, press and hold (↑ *), or open the flip, depending on the setting.
2. At the voice prompt, say the name into the phone.
   - If the phone recognizes the name, the phone attempts a connection.
   - If the phone does not recognize the name, the screen prompts for the name again.
   - If the phone is unable to recognize the name after two attempts, the message "Cannot Recognize Name. Please check name." displays. Try the call again later, or check the recorded name.

Reviewing Voice Dialing Entries

To review Voice Dialing entries:

1. Press (MENU) to display the Main Menu.
2. Press (6 MNO) for Voice Dial.
3. Press (2 ABC) for Review. A list of entries displays.
4. Press the digit key to select the desired entry, or press the scroll keys to scan entries. The recorded names play audibly as you scroll through the list.
5. Press (END) to return to Standby mode.

Erasing Voice Dialing Entries

To erase an individual Voice Dialing entry:

1. Press (MENU) to display the Main Menu.
2. Press (6 MNO) for Voice Dial.
3. Press (2 ABC) for Review. A list of entries displays.
4. Press the digit key to select the desired entry, or press the scroll keys to scan entries. The recorded names play audibly as you scroll through the list.
5. When the desired entry displays, press (OK) to select that entry.
6. Press (OK) to erase the selected entry.

To erase all Voice Dialing entries:

1. Press (MENU) to display the Main Menu.
2. Press (6 MNO) for Voice Dial.
3. Press (3 DEF) for Erase All.
4. Press (OK) to erase all Voice Dialing entries.

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Security Options

Security Menu

Your phone provides many security options, including a user-programmable lock code, and call restriction features. To access the Security menu in Standby mode, press MENU, 0 OPER. Press the associated digit key to access one of the Security options.

You must enter the four digit lock code to see any options in this menu. The default lock code is 0000.

Lock Mode

Locking the phone restricts outgoing calls to emergency numbers.

To place an outgoing call in Lock mode:

- To call an emergency number, enter the number and then press SEND.
- To place normal outgoing calls, press MENU to display the Lock Code screen, and then enter the lock code. When the Standby screen displays, enter the phone number, and then press SEND.

Lock Code Setting

The default lock code for your phone is 0000 depending on activation. You can enter a personal lock code, and then change the lock code as often as you like.

To enter a new lock code:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security.
3. Press 3 DEF for Lock Code.
4. Enter a new, four-digit lock code by pressing the desired digit keys.
5. Press OK to save the new lock code.

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Locking the Phone

To lock the phone:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security.
3. Press 1. –' for Lock Phone.
4. Press the scroll keys to select an option:
   - Off: The phone remains unlocked.
   - Now: The phone locks immediately.
   - On Power-Up: The phone locks automatically at the next power-up.
5. Press OK to save the setting.

Call Restriction

Restricting Calls

Your phone provides the following Call Restriction options in the Security menu:

- Phone Book Use
- Limit Incoming Calls
- Limit Outgoing Calls

To restrict calls:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security.
3. Press 2 ABC for Restrict.
4. Press the associated digit key to select an option:
   - Press 1. –' to restrict Phone Book.
   - Press 2 ABC to restrict Incoming calls.
   - Press 3 DEF to restrict Outgoing calls.
5. Press the scroll keys to toggle between Unrestrict/Restrict.
6. Press OK to save the setting.

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Emergency Numbers

Special numbers (100, 101, *166) are progrmmed into. The Security menu provides the option of storing three emergency numbers.

You can place calls to emergency numbers when the phone is locked or when "Restrict Outgoing Calls" is active.

Storing Emergency Numbers

To store emergency numbers:

1. Press MENU to display the Main menu.
2. Press 0 OPER for Security.
3. Press 4 GHI for Emergency Numbers.
4. Press the associated digit key to select a location for the special number.
5. Enter the number by pressing the digit keys.
6. Press OK to save the number.

Dialing Emergency Numbers

To dial emergency numbers in Lock mode:

1. Enter the emergency number by pressing the digit keys.
2. Press SEND to place the call.

Other Options

Send PIN

If your system supplier provides this service and you have a PIN assigned by the system supplier, you can set your phone to send the PIN when you make a call. This feature prevents the phone from being used by unauthorized persons. For information on this service in detail, contact your service provider.

Clear Memory

You can erase all numbers in memory at the Phone Book. The screen displays "All memories are cleared."

To erase all numbers in memory:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security.
3. Press 6 MNO for clear Memory.
4. Press the corresponding key to select context-specific options.
   - press OK to erase.
   - Press CLR to cancel.

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NAM Selection

The NAM (Number Assignment Module) enables you to subscribe to one or more service networks. Your phone has a Manual and an Automatic mode for selecting the network. In the Manual mode, you set the phone to the network you want to use. In the Automatic mode, the phone selects the network automatically based on system information for the area you are in.

To set NAM mode:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security.
3. Press 7 PQRS for NAM Mode.
4. Press the corresponding digit key to select the desired option:
   - Press 1. –' for Manual NAM, and then select a NAM: NAM-1, NAM-2 (if available).
   - Press 2 ABC for Automatic NAM, and then to toggle between On/Off.
5. Press OK to save the setting.

Block Own Number

This feature allows you to block your own number display. If you turn this feature on, the message "Blocked for phone number" displays when 'My Phone #' function is accessed by pressing MENU, 2 ABC, 2 ABC.

To set the blocking:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security.
3. Press 8 TUV for Block Own Number.
4. Press the scroll keys to toggle between On/Off.
5. Press OK to save the setting.

System Selection

The system setection feature of your phone enables you to choose which of the system providers you will use.

To select system:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Securtry.
3. Press 9 WXYZ for System Selection.
4. Press the corresponding digit key to select the desired option.
   - Press 1. –' FM and then select system modes: A Only, A Pref, B Only, B Pref, Home Only.
   - Press 2 ABC CDMA and then select system modes: A Only, A Pref, B Only, B Pref, Home Only.
5. When the desired option displays, press OK to save the setting

Reset Phone

If you want to reset all of your phone's features to the manufacturer's defaults, you can do so with this feature. But this feature doesn't affect the Phone Book, Call Logs, and SMS messages.

To reset the phone:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security.
3. Press 0 OPER for Reset Phone.
4. Press the corresponding key to select context-specific options.
   - Press OK to reset.
   - Press CLR to cancel.

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Message Services

Short Message Services and Voicemail

Your phone receives voicemail notification, text messages, and pages. And your phone transmits text messages and pages (if your system supplier provides this service). When the phone receives a message, an alert sounds, and a text notification displays. The message indicator (✉) remains on the screen until you read the pending text messages or until you listen to the voicemail notification messages.

When message memory reaches 75 percent capacity, the screen displays a text notification and a prompt to erase old messages. At 100 percent capacity, the screen displays a text notification and rejects additional incoming messages until you erase some of the stored messages.

The phone automatically adjusts the incoming message alert volume to the lowest setting when the phone is in Conversation mode.

Incoming voicemail notification and text messages transmit even when the phone is in Lock mode. To access a message, or to return a call other than an emergency number, enter the lock code.

* Contact your service provider to activate Message Service. Not currently available in all markets.

* Voicemail notification and page message service may not be supported according to the service provider.

Reviewing Messages

Your phone accepts incoming messages in both Standby and Conversation modes. When a new message arrives, an alert sounds, and the message header displays. The message header includes the type of message (Text, Page, Voicemail Notification) and the name/phone number, if available.

You can review the message upon notification or store the message for later review. The Messages menu provides options for reviewing the name/phone number of the sender, date/time stamp, priority, and the message.

Your phone can store up to 20 pages and text messages, depending on the length of the message. You can erase an individual message after reviewing it, or erase all stored messages at one time.

Reviewing Voicemail Messages

To review voicemail messages:

1. Press ✉ to dispiay the Messages Menu.
2. Press 1. – for RX Message. The number of new messages displays next to the associated message type in the menu.
3. Press 1. – for Voicemail. The screen displays “Voicemail”, the time, date, and the number of new, unread messages.
4. Press MENU for context-specific options:
   - Press 1. – to Listen to voicemail messages.
   - Press 2 ABC to Reset the counter for voicemail messages, if desired. (The system resets the counter automatically after you listen to all new messages).

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Reviewing Page and Text Messages

To review page and text messages:

1. Press MENU to display the Messages Menu.
2. Press 1. –' for RX Message. The number of new messages displays next to the associated message type in the menu.
3. Press 2 ABC for Page, or press 3 DEF for Text. An indexed list of page or text messages displays. An exclamation point next to an entry indicates an urgent message. A check mark next to an entry indicates that you have read and stored the message.
4. Press the scroll keys to highlight a message, and then press OK to select the highlighted message for review. (You can also press the associated digital key to select a message by its entry number.)
5. When the message displays, press # ↓ to review the message.
6. After reviewing the message, press MENU for context-specific options:
   - Press 1. –' for Talk (to call the phone number).
   - Press 2 ABC to Save the number (if there is no Phone Book match).
   - Press 3 DEF to Erase the message.
   - Press 4 GHI to review the Next message.
   - Press 5 JKL to review the Previous message.
7. Press CLR to return to the previous screen.

Choosing Alert Type for Message Receiving

The phone alerts you when a message is received. You can choose how frequently this happens. The three options are: EVERY 2 MIN, OFF, ONCE.

To set the frequency:

1. Press MENU to display the Message menu.
2. Press 1. –' for RX Message.
3. Press 4 GHI to select SMS Alert.
4. Press the scroll keys until you find your desired type.
5. Press OK to save the setting.

Erasing Messages

You can erase all stored message.

To erase messages:

1. Press MENU to display the Message Menu.
2. Press 1. –' for RX Message.
3. Press 5 JKL for Erase All.
4. Press OK to confirm erasing, or press CLR to cancel.

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Transmitting Messages

Your phone transmits text messages and pages. Your phone can store up to 10 outgoing messages. And you can store the message for later sending.

Transmitting Page and Text Messages

To transmit page and text messages:

1. Press ✉ to display the Messages Menu.
2. Press 2 ABC for TX Message.
3. Press 1. –' for Page, or press 2 ABC for Text.
4. The screen displays to guide you through the process. If you choose to transmit a Text, press the associated alphanumeric key to enter a letter. Press OK to end a typing.
5. Your phone requests the Destination phone number. The phone uses the number to process later.
6. Enter the desired phone number.
7. Press OK. The phone requests the Call Back number. This number may be your phone number, office number or home number.
8. Enter the desired phone number.
9. Press OK. You can set text messages' priority, if available. Priority options are: NORMAL, URGENT, EMERGENCY.
10. Press OK. The phone processes a transmission. If the processing is finished successfully, you can store the message.

Transmission Using Stored Messages

To transmit using Message logs:

1. Press ✉ to display the Message Menu.
2. Press 2 ABC for TX Message.
3. Press 3 DEF for TX Box.
4. Press 1. –' for Stored Messages.
5. When the list of messages displays, press the scroll keys to select an entry.
   - Press SEND. Your phone confirms that the Destination phone number will be used. You can enter other number as a message destination.
   - Press OK to erase the selected entry.
6. Press OK. The phone processes a transmission.

Erasing Messages

To erase messages:

1. Press ✉ to display the Message Menu.
2. Press 2 ABC for TX Message.
3. Press 3 DEF for TX Box.
4. Press 2 ABC for Erase All.
5. Press OK to confirm erasing, or press CLR to cancel.

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Safety

For a variety of safety reasons, it is important to consider where you will be using your phone. When using your phone and its accessories, please follow these guidelines:

Compliance with Safety Standards

The SAMSUNG phone meets all standards and recommendations for the protection of the public from exposure to radio frequency (RF) electromagnetic energy established by governmental bodies and other qualified organizations. To reduce the risk of fire, electric shock, serious personal injury, or property damage, please follow these guidelines:

Driving

Using a wireless phone while driving is illegal in some states and countries. Know the laws and regulations for your area, and pull off the road and park if you need to make a call. If you must use the phone while driving, purchase and install the optional Hands-Free Car Kit.

Electronic Devices

Your wireless telephone is a radio transmitter and receiver. When the power is on, the phone receives and sends out RF energy. Most modern electronic equipment, such as equipment in hospitals and cars, contains an RF signal shield. RF energy may affect some inadequately shielded electronic equipment.

Turn off your phone in health care facilities, and always request permission berore using the phone near medical equipment.

Consult the manufacturer of any personal medical devices, such as pacemakers and hearing aids, to determine if they are shielded adequately from external RF signals.

Note if there are any regulations posted in the area regarding the operation of wireless phones, and learn where you can use them safely within the facility.

Aircraft

Turn off your phone belore boarding any aircraft. The Federal Aviation Administration (FAA) requires that you have prior permission from the crew to use your phone while the plane is on the ground. FCC regulations prohibit using your phone while the plane is in the air. Do not use your phone at any time while traveling on board a plane.

Blasting Areas

Construction crews often use remote-control RF devices to set off explosives. To avoid interfering with blasting operations, turn off your phone when you are in a blasting area or in any area with signs posted that read “Turn off two-way radio.”

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Other Dangerous Areas

Turn off your phone in any area with a potentially explosive atmosphere. It is rare, but your phone or its accessories could generate sparks, which could cause explosion or fire. Areas with a potentially explosive atmosphere may not always be clearly marked. These areas may include:

- Fueling areas, such as gas stations
- Below deck on boats
- Fuel or chemical transfer or storage facilities
- Areas where the air contains chemicals or particles such as grain, dust, or metal powders
- Any other area where you would normally be advised to turn off your vehicle engine

Do not transport or store flammable gas, liquid, or explosives in the compartment of a vehicle containing your phone or accessories.

Accessories

Batteries

Three types of Li Ion batteries are available for use with your SAMSUNG phone:

- Standard Battery
- Extended Battery
- Long - Life Battery

Dual - Slot Desktop Charger

The Dual - Slot Desktop Charger charges the battery at your home or office.
The Socket - outlet shall be installed near the equipment and shall be easily accesible.

Cigarette Lighter Adapter

The Cigarette Lighter Adapter charges your SAMSUNG phone in a vehicle while you drive and enables you to operate the phone from a vehicle cigarette lighter socket.

Travel Charger

The Travel Charger plugs into a wall outlet and enables you to charge a single battery at your home or office or while traveling.

Hands-Free Car Kit

The Hands-Free Car Kit provides safety, freedom and convenience in your vehicle. (Kit includes Cradle and Microphone.)

Ear-Microphone

The Ear-Microphone includes both the earpiece and microphone in a convenient, lightweight unit.

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Charging Times with Accessories

	Standard Battery	Extended Battery	Long-Life Battery
Dual-Slot Desktop Charger	3.5 hrs.	4.5 hrs.	7.5 hrs.
Travel Charger	2.5 hrs.	3.0 hrs.	5.5 hrs.
Hands-Free Car Kit	4.0 hrs.	6.0 hrs.	8.0 hrs.
Cigarette Lighter Adapter	4.0 hrs.	4.5 hrs.	7.5 hrs.

Glossary of Terms

Airtime - Actual time spent talking on the wireless phone. Most carriers bill customers based on how many minutes of airtime they use each month.

Antenna - A device for transmitting or receiving signals. The size and shape of antennas is determined, in part, by the frequency of the signal they receive. Wireless phones and the base station must have antennas.

Base Station - The fixed radio transmitter/receiver that maintains communications with mobile radio telephones within a given area. (Typically seen as cell or cell site.)

CDMA - (Code Division Multiple Access) A spread-spectrum approach to digital transmission. With CDMA, each conversion is digitized and then tagged with a code. The mobile phone deciphers only a particular code to pick the right conversation off the air. The transmitted signal is just above noise level across the available bandwidth.

Channel - Communications signals transmit along paths called channels.

Codec - COmpression & DECompression.

Deactivation - The process of rendering a wireless phone inactive.

DTMF - (Dual-tone Modulated Frequency) You send DTMF signals when you enter numbers by pressing the digit keys.

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EVRC - (Enhanced Variable Rate Codec) EVRC is a new global standard for compressing and decompressing voice signals. EVRC uses a lower bit rate (the number of bits sent per second) than existing CDMA vocoders, while providing significant improvements in voice quality. This technology enables your phone to provide superb voice quality while benefiting from the ability to process more cellular voice calls using less bandwidth than the voice codecs in CDMA networks today.

Frequency - A measure based on time, as one or more waves per second, in an electrical or lightwave information signal. A signal's frequency is stated in cycles-per-second or Hertz (Hz).

Hands-Free - A feature that permits a driver to use a wireless phone without lifting or holding the handset - an important safety feature for automobiles, tractors and most other motorized vehicles.

LCD - (Liquid Crystal Display) Commonly used to refer to the screen display on the wireless phone.

LED - (Light Emitting Diode) Commonly used to refer to a small light on the wireless phone or on the Desktop Charger. The LED lights on the phone to indicate an incoming call. The LED lights on the charger to indicate that battery charging is taking place.

Prepend - The addition of a prefix, such as an area code, to a phone number.

RF - Radio Frequency

Roaming - The ability to use a wireless phone to make and receive calls in places outside of the home service area.

Service Charge - The amount paid each month to receive wireless service.

SMS - (Short Message Seryices) The variety of messaging services available on the SAMSUNG phone, including voicemail, numeric paging and text messaging.

Standby Time - The amount of time a fully charged wireless portable or transportable phone can be on and idle without being in use. (SeeTalk Time.)

Talk Time - The length of time a person can talk on a portable or transportable wireless phone without recharging the battery.

Vocoder - Voice Coder. A device used to convert speech into digital signals.

Voicemail - A computerized answering service that answers a call, plays a greeting and records a message. Depending on the sophistication of the service, it can notify the subscriber, via a pager, of an incoming call or message. (Also called voice messaging.)

Wireless - Radio-based Systems that allow tannsmission of telephone or data signals through the air without a physical connection, such as a metal wire (copper) or fiber optic cable.

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